UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,312	02/09/2004	Eun-sung Lee	277,008 DIV	6650
27849 LEE & MORSE	7590 01/29/2007 E, P.C.		EXAMINER	
3141 FAIRVIEW PARK DRIVE			VU, HUNG K	
SUITE 500 FALLS CHUR	CH, VA 22042		ART UNIT	PAPER NUMBER
	·		2811	
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MOI	NTHS	01/29/2007	PAPER	

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

			Á.		
	Application No.	Applicant(s)	<i>1</i> 1		
	10/773,312	LEE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Hung Vu	2811			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence add	iress		
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING  Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUN R 1.136(a). In no event, however, may a n. eriod will apply and will expire SIX (6) MO tatute, cause the application to become A	ICATION. reply be timely filed  NTHS from the mailing date of this cor. BANDONED (35 U.S.C. § 133)			
Status	•	•			
1) Responsive to communication(s) filed on 1	5 November 2006.				
	This action is non-final.		•		
3) Since this application is in condition for all	owance except for formal mat	tters, prosecution as to the	merits is		
closed in accordance with the practice und	ler <i>Ex parte Quayle</i> , 1935 C.I	D. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>20-31</u> is/are pending in the applic	ation.				
4a) Of the above claim(s) 29 is/are withdra		•			
5) Claim(s) is/are allowed.	•				
6)⊠ Claim(s) <u>20 and 24</u> is/are rejected.					
7) Claim(s) <u>21-23,25-28,30 and 31</u> is/are objection	ected to.		•		
8) Claim(s) are subject to restriction are	nd/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exar	niner.				
10) The drawing(s) filed on is/are: a)		by the Examiner.	•		
Applicant may not request that any objection to					
Replacement drawing sheet(s) including the co	rrection is required if the drawing	g(s) is objected to. See 37 CFF	R 1.121(d).		
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attache	d Office Action or form PTC	D-152.		
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:	•				
1. Certified copies of the priority docum		ľ			
2. $\boxtimes$ Certified copies of the priority documents have been received in Application No. 10/384,495.					
3. Copies of the certified copies of the		n received in this National S	Stage		
application from the International Bu	` ' ' '				
* See the attached detailed Office action for a	list of the certified copies no	t received.			
·					
0					
Attachment(s)	process.				
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>	4) Linterview	Summary (PTO-413) (s)/Mail Date			
3) Information Disclosure Statement(s) (PTO/SB/08)	. 5) Notice of	Informal Patent Application			
Paper No(s)/Mail Date <u>2/9/04,2/2/05,7/13/05</u> .	6) Other:	<del></del>			

Art Unit: 2811

#### **DETAILED ACTION**

## Election/Restrictions

1. Applicant's election of Invention of 1 of Figures 3A-3F, Claims 20-28 and 30-31, in the reply filed on 11/15/06 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Applicant's election without traverse of Invention of 1 of Figures 3A-3F, Claims 20-28 and 30-31 in the reply filed on 11/15/06 is acknowledged.

2. Claim 29 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 11/15/06.

#### Claim Objections

3. Claim 23 is objected to because of the following informalities:

In claim 23, line 1, "20" should be changed to "22" for clarity.

In claim 23, lines 2-3, "a connection part" should be changed to "the connection part" for clarity.

Appropriate correction is required.

### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 20 and 24 are rejected under 35 U.S.C. 102(e) as being anticipated by Ma et al. (US 2004/0000696).

Ma et al. discloses, as shown in Figures 1-6, a MEMS device, comprising:

a fixing part fixed to a substrate (12);

a driving part (16) connected to the fixing part by a connecting part (26) and floating over the substrate;

an electrode part (14a) for driving the driving part;

contact parts (14b) selectively switchable with the driving part, wherein the electrode part and the contact parts are planarized on the substrate.

Regarding claim 24, Ma et al. discloses a width of the connection part is narrower than that of the fixing part.

Art Unit: 2811

# Allowable Subject Matter

- 5. Claims 21-23, 25-28 and 30-31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. The following is an examiner's statement of reasons for allowance:

Applicant's claims 21-23, 25-28 and 30-31 are allowable over the references of record because none of these references disclose or can be combined to yield the claimed MEMS device comprising the electrode part includes an electrode and an insulation layer covering the electrode to electrically isolate the driving part and the electrode, as recited in claim 21; an anchor inserted between the fixing part and the substrate for fixing the fixing part on the substrate and sidewalls on at least a portion of side surfaces of the anchor, as recited in claim 22.

#### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Vu whose telephone number is (571) 272-1666. The examiner can normally be reached on Monday to Thursday 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard T. Elms can be reached on (571) 272 - 1869. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2811

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Vu

January 17, 2007

Hung Vu

Primary Examiner